



10/7/3,051

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Certificate**

DEC 17 2008

ATTENTION: HONORABLE  
Commissioner for Patents

P.O. Box 1450

**of Correction**

In re the Patent of: YAMAMOTO, Akinori

P.T.O. Confirmation No.: 1156

Patent No. 6,777,563

Issued: August 17, 2004

FOR: P R O C E S S F O R P R E P A R I N G  
3-FLUOROALKOXYMETHYL-3-ALKYLOXETANES

**REQUEST FOR CERTIFICATE OF CORRECTION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Mail Stop DAC**  
December 12, 2008

Sir:

The undersigned requests that a Certificate of Correction be issued for the above-identified patent as indicated on the attached Form PTO-1050.

This request is being made in order to correct item (54). The title of the invention is incorrect. Please correct the title should read as **--PROCESS FOR PREPARING 3-FLUOROALKOXYMETHYL-3-ALKYLOXETANES--**. Copies of the Letters Patent No. 6,777,563 1<sup>st</sup> page, Declaration & Application Transmittal 1<sup>st</sup> page filed November 17, 2003 which indicate the correct information. It is respectfully submitted that no new matter has been added.

Since this error is a Patent and Trademark Office printing error, it is respectfully submitted that no fee is required.

Respectfully submitted,

KRATZ, QUINTOS & HANSON, LLP

Donald W. Hanson  
Attorney for Applicant  
Reg. No. 27,133

DWH/ses

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PATENT & TRADEMARK OFFICE

DEC 17 2008

Enclosures: PTO-1050, Letters Patent 1<sup>st</sup> page, Declaration and Application Transmittal 1<sup>st</sup> page  
filed 11/17/03

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO.: 6,777,563  
APPLICATION NO.: 10/713,051  
DATED : August 17, 2004  
INVENTOR(S): YAMAMOTO, Akinori

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title page:

Item “(54)” “3-FLUOROALKOXYMETHYL-3-ALKYLOXETANES”

Should read:

Item “(54)” --**PROCESS FOR PREPARING**  
**3-FLUOROALKOXYMETHYL-3-ALKYLOXETANES--**

MAILING ADDRESS OF SENDER:  
**KRATZ, QUINTOS & HANSON, LLP**  
**1420 K Street, NW, Suite 400**  
**Washington, DC 20005**

FORM PTO 1050 (REV. 3/82)

Patent No.: 6,777,563  
**DEC 17 2008**  
No. of add'l copies  
@ 30¢ per page  
⇒ \_\_\_\_\_



US006777563B2

(12) **United States Patent**  
Yamamoto

(10) **Patent No.:** US 6,777,563 B2  
(45) **Date of Patent:** Aug. 17, 2004

SHOULD READ AS: 7

-- PROCESS FOR PREPARING

(54) 3-FLUOROALKOXYMETHYL-3-  
ALKYLOXETANES --

(75) Inventor: Akinori Yamamoto, Settsu (JP)

(73) Assignee: Daikin Industries, Ltd., Osaka (JP)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/713,051

(22) Filed: Nov. 17, 2003

(65) Prior Publication Data

US 2004/0097744 A1 May 20, 2004

#### Related U.S. Application Data

(62) Division of application No. 10/221,191, filed as application No. PCT/JP01/01940 on Mar. 13, 2001, now Pat. No. 6,673,947.

(30) Foreign Application Priority Data

Mar. 31, 2000 (JP) ..... 2000-96920

(51) Int. Cl.<sup>7</sup> ..... C07D 305/06

(52) U.S. Cl. .... 549/511; 549/510; 549/511

(58) Field of Search ..... 549/511, 510

(56) References Cited

#### U.S. PATENT DOCUMENTS

5,650,483 A 7/1997 Malik et al. .... 528/402

#### FOREIGN PATENT DOCUMENTS

GB	2269816 A	2/1994	
GB	2269816 A *	2/1994	..... C07D/306/08
JP	2000-191652	7/2000	

#### OTHER PUBLICATIONS

JP Database 13:106364; Patent No. 2000191652—Fluorine-containing . . . compositions, and manufacture thereof; Jul. 11, 2000.

\* cited by examiner

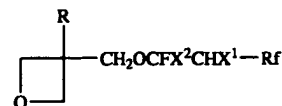
Primary Examiner—Joseph K. McKane

Assistant Examiner—Janet L Coppins

(74) Attorney, Agent, or Firm—Armstrong, Kratz, Quintos, Hanson & Brooks, LLP

(57) **ABSTRACT**

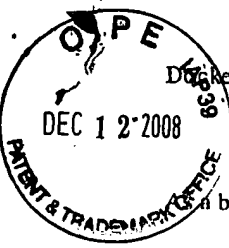
The present invention provides a process for synthesizing 3-fluoroalkoxymethyl-3-alkyloxetanes, suitable as intermediates for preparing various fluorine-containing functional materials, represented by General Formula (Ia):



wherein, X<sup>1</sup> and X<sup>2</sup> independently represent hydrogen or fluorine; Rf represents fluorine or C<sub>1</sub>–C<sub>18</sub> linear or branched perfluoroalkyl; and R represents methyl, ethyl, n-propyl or isopropyl.

1 Claim, No Drawings

DEC 17 2008



Docket No.

Armstrong, Westerman & Hattori, LLP

# DECLARATION FOR U.S. PATENT APPLICATION

I, below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

PROCESS FOR PREPARING 3-FLUOROALKOXYMETHYL-3-ALKYLOXETANES

the specification of which is attached hereto unless the following is checked

☒ was filed on March 13, 2001 as United States Application Number \_\_\_\_\_ or PCT International Application Number PCT/JP01/01940 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 (a) - (d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application for which priority is claimed.

(List prior foreign applications. See note A below)

Priority Claimed

2000-96920 Japan 31/03/2000  
(Number) (Country) (Day/Month/Year Filed)

☒ Yes ☐ No

\_\_\_\_\_  
(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

\_\_\_\_\_  
(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

\_\_\_\_\_  
(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

(See note B below)

☐ See attached list for additional prior foreign applications

I hereby claim the benefit under Title 35, United States Code, ' 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, ' 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, ' 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(List prior U.S. Applications)

Status

\_\_\_\_\_  
(Application Serial No.) (Filing Date)

☐ Patented ☐ Pending ☐ Abandoned

\_\_\_\_\_  
(Application Serial No.) (Filing Date)

☐ Patented ☐ Pending ☐ Abandoned

\_\_\_\_\_  
(Application Serial No.) (Filing Date)

☐ Patented ☐ Pending ☐ Abandoned

DEC 17 2008

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

**\*23850\***

**23850**

PATENT TRADEMARK OFFICE

Please direct all communications to the following address:

**\*23850\***

**23850**

PATENT TRADEMARK OFFICE

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18 of the United States Code, ' 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(See note C)	Full name of sole or first inventor (given name, family name)	Akinori YAMAMOTO
	Inventor's signature	<u>Akinori Yamamoto</u> Date <u>September 4, 2002</u>
	Residence	<u>Settsu-shi, Osaka 566-0044, Japan</u> Citizenship <u>Japan</u>
	Post Office Address	<u>c/o Yodogawa Seisakusho, DAIKIN INDUSTRIES, LTD.,</u> <u>1-1, Nishihitotsuya, Settsu-shi, Osaka 566-0044, Japan</u>
	Full name of second inventor (given name, family name)	
	Inventor's signature	Date
	Residence	Citizenship
	Post Office Address	
	Full name of third inventor (given name, family name)	
	Inventor's signature	Date
	Residence	Citizenship
	Post Office Address	
	Full name of fourth inventor (given name, family name)	
	Inventor's signature	Date
	Residence	Citizenship
	Post Office Address	
	Full name of fifth inventor (given name, family name)	
	Inventor's signature	Date
	Residence	Citizenship
	Post Office Address	
	Full name of sixth inventor (given name, family name)	
	Inventor's signature	Date
	Residence	Citizenship
	Post Office Address	

DEC 17 2008

UTILITY PATENT  
APPLICATION TRANSMITTAL  
(Only for new nonprovisional applications  
under 37 CFR 1.53(b))

Attorney  
Docket No.

021192A

Total:  
pages plus  
postcard &  
check031088 U.S. PTO  
10/713051

Check Box, if applicable [ ] Duplicate

First Named Inventor or Application Identifier

Akinori YAMAMOTO

Express Mail Label No.

PAGE 1 OF 3

TITLE OF APPLICATION:  
PROCESS FOR PREPARING 3-  
FLUOROALKOXYMETHYL-3-  
ALKYLOXETANES

ADDRESS TO:

Commissioner for Patents  
BOX PATENT APPLICATIONS  
P.O. Box 1450  
Alexandria, VA 22313-1450

1. ☒ ~~Fee Transmittal Form~~ (Incorporated within this form)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification, Claims, Abstract Total Pages [8]
3. ☐ Drawing(s) (35 USC 113) Total Sheets [ ]
4. ☒ Oath or Declaration Total Pages [2]  
a. ☐ Newly executed (original or copy)  
b. ☒ Copy from prior application (37 CFR 1.63(d) (for continuation/divisional with Box 17 completed).  
i. ☐ Deletion of Inventor(s)  
Signed statement attached deleting inventor(s) named in prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
5. ☒ Incorporation by reference (usable if box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Microfiche Computer Program (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  
a. ☐ Computer Readable Copy  
b. ☐ Paper Copy (identical to computer copy)  
c. ☐ Statement Verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

8. ☒ Assignment to **DAIKIN INDUSTRIES, LTD., Osaka-shi, Japan**, in the prior Application Serial No. 10/221,191, filed on 9/23/02, has been recorded at Reel 013489, Frames 0117-0119, on 9/23/02. **Please publish the assignee data with the application.**
9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney